**LISTA LUCRĂRILOR PUBLICATE**

**As. Univ. Dr. Buzatu Alina Ramona**

**A. Teza de doctorat**

“Utilizarea lipazelor imobilizate pentru sinteza esterilor de oligo- și polizaharide”, Seria 4: Inginerie Chimică, nr. 59, 2012, Editura Politehnica – Timișoara, ISSN 1842 – 8223, ISBN 978 – 606 – 554 – 454 – 3, Conducător științific: Prof. Dr. Ing. Corneliu Mircea Davidescu, Universitatea Politehnica din Timișoara, 2012.

**B.** **Cărţi si capitole în cărţi:**

1. Biologie - Teste pentru concursul de admitere la programele de studii de Asistență Medicală Generală, Balneofiziokinetoterapie și recuperare medicală, Nutriție și Dietetică, Tehnică Dentară și Asistență de Profilaxie Stomatologică ale UMF "Victor Babeș " din Timișoara, Marilena Motoc, Adelina Jianu, Lavinia Noveanu, Pușa Gaje, Loredana Stana, Carmen Tatu, **Ramona Buzatu**, 2021, Editura Victor Babeș, Timișoara, ISBN 978-606-786-216-4.
2. Lucrări practice de chimie și biochimie medicală pentru studenții facultăților de medicină, Anghel Andrei, Șeclăman Edward, Tămaş Liviu, Motoc Marilena, Şişu Eugen, Kaycsa Adriana, David Dana, Sîrbu Ioan Ovidiu, Marian Cătălin, Samoilă Corina, Grecu Daniela, Sfrijan Felicia, Georgescu Alina, Marcu Anca, **Buzatu Ramona**, Bonţe Diana, Gurban Camelia, Alexa Anda, Bujor Georgeta, Liana Mărieș, Mihala Adrian, Sala-Cîrtog Maria, 2019, Editura Victor Babeș, Timișoara, ISBN 978-606-786-138-9.
3. Lucrări practice de biochimie farmaceutică, Andrei Anghel, Adriana Kaycsa, Liviu Tămaș, Alina Georgescu, Anca Marcu, **Ramona Buzatu**, Adrian Mihala, Maria Sala-Cîrtog, Alexandra Moatăr, Aimee Chiș, 2019, Editura Victor Babeș, ISBN 978-606-786-148-8.
4. Lucrări practice de chimie și biochimie medicală - pentru studenții Facultăților de Medicină, Andrei Anghel, Edward Șeclăman, Liviu Tămaș, Marilena Motoc, Eugen Șișu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sîrbu, Cătălin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, Alina Georgescu, Anca Marcu, **Ramona Buzatu**, Diana Bonțe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, Liana Mărieș, 2017, Editura Victor Babeș, Timișoara, ISBN 978-606-786-054-2.
5. Lucrări practice de chimie și biochimie medicală - pentru studenții Facultăților de Medicină, Andrei Anghel, Edward Șeclăman, Liviu Tămaş, Marilena Motoc, Eugen Şişu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sîrbu, Cătălin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, Alina Georgescu, Anca Marcu, **Ramona Buzatu**, Diana Bonţe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, 2016, Editura Victor Babeș, Timișoara, ISBN 978-606-786-015-3.
6. Lucrări practice de chimie și biochimie medicală - pentru studenții Facultăților de Medicină, Andrei Anghel, Edward Șeclăman, Liviu Tămaș, Marilena Motoc, Eugen Șișu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sîrbu, Cătălin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, Alina Georgescu, Anca Marcu, **Ramona Buzatu**, Diana Bonțe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, 2015, Victor Babeș, Timișoara, ISBN 978-606-8456-76-8.
7. Lucrări practice de chimie si biochimie medicală - pentru studenții Facultăților de Medicină, Andrei Anghel, Edward Șeclăman, Liviu Tămaș, Marilena Motoc, Eugen Șișu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sîrbu, Cătălin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, Alina Șerb, Anca Marcu, **Ramona Buzatu**, Diana Bonțe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, Raluca Dumache, 2014, Editura Victor Babeș, Timișoara, ISBN 978-606-8456-36-2.
8. Adriana Kaycsa, Andrei Anghel, Liviu Tămaș, Anca Marcu, **Ramona Buzatu,** Lucrări practice de biochimie – pentru studenții Facultăților de Farmacie, Waldpress Agency, Timișoara, 2014, ISBN 978-606-614-120-8.
9. Biochimie Medicală pentru studenţii facultăţilor de medicină. Materia vie – structură şi compoziţie, Anghel Andrei, Șeclăman Edward, Tămaș Liviu, Marcu Anca, **Buzatu Ramona**, Waldpress, Timișoara, 2014, ISBN 978-606-614-121-5.

**C. Lucrări științifice publicate în extenso în reviste indexate ISI cu factor de impact**

1. **Alina Ramona Buzatu**, August E. Frissen, Lambertus A. M. van den Broek, Anamaria Todea, Marilena Motoc, Carmen Gabriela Boeriu, Chemoenzymatic Synthesis of New Aromatic Esters of Mono- and Oligosaccharides, Processes, 8 (12), 2020, 1638-1657, ISSN 2227-9717, IF 2,753.
2. Natalia Guma, Andreea Nastase, Speranta Avram, **Ramona Buzatu**, Marilena Motoc, Bioinformatics and Cheminformatics Tools Applied to Chitosan and Derivatives with Biomedical Applicability, Revista de Chimie, 71 (5), 2020, 157-162, ISSN 0034-7752, IF 1,755.
3. Maria Mihailescu, Petru Negrea, Narcis Duteanu, Adina Negrea, Mihaela Ciopec, Vasile Gherman, **Ramona Buzatu**, Marilena Motoc, From the Complex Process of Gold Ions Recovery in New Antimicrobial Product, Revista de Chimie, 70, 3, 2019, 1080-1084, ISSN 0034-7752, IF 1,755.
4. Corina Grigoriu, Florentina Furtunescu, Laura Elena Gaman, Alice Lavinia Balaceanu, **Ramona Buzatu**, Mihai Grigoriu, A Biochemical Marker of Preeclampsia - Hypertriglyceridemia - and the Impact of Secondary Prevention Therapy, Revista de Chimie, 69, 10, 2018, 2740-2743, ISSN 0034-7752, IF 1,605.
5. Monica Butnariu, Ioan Sarac, Marius Pentea, Ionel Samfira, Adina Negrea, Marilena Motoc, **Alina Ramona Buzatu**, Mihaela Ciopec, Approach for Analyse Stability of Lutein from Tropaeolum majus, Revista de Chimie, 2016, 67 (3), 503 – 506, ISSN 0034-7752, IF 1,232.
6. Andreea Gabor, Corneliu Mircea Davidescu, Adriana Popa, Adina Negrea, Mihaela Ciopec, Marilena Motoc, Lavinia Lupa, **Alina** **Ramona Buzatu**, Petru Negrea, Equilibrium Studies for Crown Ether Impregnated Solid Support Used in the Removal Process of Nd(III), La(III), Sr(II), Tl(I), Eu(III), Revista de Chimie, 2016, 67 (3), 580 – 583, ISSN 0034-7752, IF 1,232.
7. Marius Pentea, Ionut Sarac, Ionel Samfira, Adina Negrea, Mihaela Ciopec, Marilena Motoc, Andreea Gabor, Petru Negrea, **Ramona Buzatu**, Studies Concerning Disposal Radionuclides by Adsorption Rabbit Bone Meal, Revista de Chimie, 2016, 67 (5), 967 – 970, ISSN 0034-7752, IF 1,232.
8. **Ramona Croitoru**, Firuța Fiţigău, L. A. M. van den Broek, A. E. Frissen, Corneliu Mircea Davidescu, Carmen Boeriu, Francisc Peter, Biocatalytic acylation of sugar alcohols by 3-(4-hydroxyphenyl)-propionic acid, Process Biochemistry, 2012, 47 (12), 1894 – 1902, ISSN: 1359-5113, IF 2,414.
9. Cristina Zarcula, Livia Corici, **Ramona Croitoru**,Anca Ursoiu, Francisc Peter, Preparation and properties of xerogels obtained by ionic liquid incorporation during the immobilization of lipase by the sol-gel method, Journal of Molecular Catalysis: B Enzymatic, 2010, 65, 79 – 86, ISSN 1381-1177, IF 2,330.
10. Cristina Zarcula, Claudia Kiss, Livia Corîci, **Ramona Croitoru**, Carol Csunderlik, Francisc Peter, Combined sol-gel entrapment and adsorption method to obtain solid-phase lipase biocatalyst, Revista de Chimie, 2009, 60 (9), 922 – 927, ISSN 0034-7752, IF 0,552.

**D. Lucrări științifice publicate în rezumat în reviste indexate ISI cu factor de impact**

1. Anca Ursoiu, Mihaela Ungurean, Ana Todea, Livia Corici, **Ramona Croitoru**, Cristina Paul, Carmen Boeriu, Francisc Peter, Optimization of biocatalytic function of hydrolases entrapped in tailored sol–gel materials, New Biotechnology, 2012, 29, Supplement, S66 – S67, ISSN 1871 – 6784, IF 1,706.
2. Francisc Peter, Cristina Zarcula, **Ramona Croitoru**, Livia Corici, Optimization of lipase biocatalytic performances through sol—gel immobilization, New Biotechnology, 2009, 25S, S140, ISSN 1871 – 6784, IF 2,000.
3. Francisc Péter, Cristina Zarcula, Sandor Kakasi Zsurka, **Ramona Croitoru**, Corneliu Davidescu, Carol Csunderlik, Solid-phase lipase biocatalysts for kinetic resolutions, Journal of Biotechnology, 2008, 136S (1), S374, ISSN 0168-1656, IF 2,748.

**E. Lucrări științifice publicate în extenso în reviste indexate în baze de date internaționale**

1. **Ramona Croitoru**, L. A. M. van den Broek, A. E. Friessen, Corneliu Mircea Davidescu, Francisc Peter, Carmen Boeriu, Lipase catalyzed synthesis of aromatic esters of sugar alcohols, World Academy of Science, Engineering and Technology, International Journal of Chemical and Molecular Engineering, 2011, 5 (4), 332 - 337, WASET 2011, year 7, issue 76, 484 – 489, eISSN 2010 – 3778, indexat BDI (Scopus, Google Scholar).
2. Cristina Zarcula, Livia Corîci, **Ramona Croitoru**, Carol Csunderlik, Francisc Péter, Improvement of lipase catalytic properties by immobilization in hybrid matrices, World Academy of Science, Engineering and Technology, International Journal of Chemical and Molecular Engineering, 2009, 3(4), 204-208, indexat BDI (Google Scholar, Scopus).

**F. Lucrări științifice publicate în extenso în reviste cotate CNCSIS categoria B+**

1. Narcisa Mederle, Gheorghe Dărăbuș, Ileana Nichita, Sorin Morariu, Tijana Suici, Sylviu Kumbakisaka, **Ramona Buzatu**, Andreea Gartner, Identification of *microsporum canis* species in cutaneous lesions of cats in timis county, **Lucrări Ştiinţifice Universitatea de Ştiinţe Agricole şi Medicină Veterinară "Ion Ionescu de la Brad Iaşi", seria Medicină Veterinară, 2017, vol. 60 (2), 223 - 226,** ISSN–L 1454 – 7406.
2. Narcisa Mederle, A. Kaya, M. Albu Kaya, M. Pătrașcu, C. Chiș, Andreea Gartner, D. Frăsia, **Ramona Buzatu**, Sylviu Kumbakisaka, Therapeutic efficacy testing of demosimcan gel and canider ointment used in dry canine demodicosis lesions. Preliminary study, Lucrări ştiinţifice Medicină Veterinară Timisoara, 2017, vol. L (2), 322 - 331, ISSN 1221-5295.
3. Mariana Anghel, Anca Marcu, Claudiu Marcu, **Ramona Buzatu**, Biocatalytic synthesis of betulinic acid aromatic esters, Chemical Bulletin of “Politehnica” University of Timisoara, Romania, Series of Chemistry and Environmental Engineering, 2012, 57 (71), 2, ISSN 2069 – 6310.
4. Cristina Paul, Mihaela Ungurean, Livia Corîci, **Ramona Croitoru**, Florin Balcu, Corina Macarie, Firuța Fiţigău, Raluca Martagiu, Francisc Peter, Hydrolysis of lignocellulosic biomass by cellulases from Trichoderma reesei, Annals of West University of Timisoara, Series Chemistry, 2009, 18 (2), 63 – 68, ISSN 1224-9513.
5. Sandor Kakasi-Jurka, Cristina Paul, Livia Corîci, **Ramona Croitoru**, Francisc Peter, Biopolymers from hydroxybutiric acid and carbohydrate derivatives, Annals of West University of Timisoara, Series Chemistry, 2009, 18 (2), 29 – 34, ISSN 1224-9513.
6. Cristina Zarcula, Livia Corîci, **Ramona Croitoru**, Francisc Péter, Double immobilization of porcine pancreas lipase, Annals of West University of Timisoara, Series of Chemistry, 2008, 17 (3), 61 – 66, ISSN 1224-9513.
7. Cristina Zarcula, Livia Corîci, **Ramona Croitoru**, Francisc Péter, Kinetic resolution of secondary alcohols in lipase-catalyzed transesterification reactions, Annals of West University of Timisoara, Series of Chemistry, 2007, 16 (4), 107 – 112, ISSN 1224-9513.

**G. Lucrări științifice publicate în volume de conferințe**

1. Mederle Ovidiu, Motoc Marilena, **Buzatu Ramona**, Mares Mihai, Mederle Narcisa, Microsporum canis identification in a psoriatic lesions of the 67 year old man. Case report., 2. The International Scientific Humans and Animals common diseases-Third Euro-regional conference on parasitic zoonoses, 2018, Timișoara, România, ISSN 2601-9795.
2. **Ramona Croitoru**, Firuța Fiţigău, Cristina Paul, Ben Van den Broek, Guus Frissen, Carmen Boeriu, Francisc Péter, Optimization of enzyme – catalyzed synthesis of aromatic esters of sugar alcohols, The XIII International Symposium Young People and Multidisciplinary Research, Timişoara, Romania, 2011, Abstract book, pp. 17-18.
3. **Ramona Croitoru**, L. A. M. van den Broek, A. E. Frissen, Corneliu Mircea Davidescu, Francisc Peter, Carmen Boeriu, Enzymatic synthesis of phenyl esters of polyhidric alcohols, The 12th Edition of Timisoara’s Academic Days, Chemistry Symposium, Timișoara, Romania, 2011, 115, ISSN 2065 – 0760.
4. **Ramona Croitoru**, Cristina Paul, A. L. van den Broek, A. E. Friessen, Francisc Peter, Carmen Boeriu, Screening of free and sol-gel immobilized lipases in transesterification reactions, 5th International Congress on Biocatalysis 2010, Hamburg, Germany, 2010, 143, ISBN 978-3-941492-24-0.
5. **Ramona Croitoru**, Cristina Paul, A. L. van den Broek, A. E. Friessen, Francisc Peter, Carmen Boeriu, Ionic liquids as template compounds for sol-gel entrapment of lipases, 2th International Conference on Chemistry and Chemical Engineering, Timișoara, Romania, 2010, 39, ISSN 2068-374X.
6. Sandor Kakasi-Zsurka, Cristina Paul, Livia Corîci, **Ramona Croitoru**, Francisc Péter, Lipase-Catalyzes Synthesis of Biopolymers Containing 3-Hydoxyalkanoate Monomer, BIT’s Inaugural Symposium on Enzymes & Biocatalysis, Shanghai, 2010, 156.
7. **Ramona Croitoru**, Cristina Paul, A. L. van den Broek, A. E. Friessen, Francisc Peter, Carmen Boeriu, Immobilized sol-gel lipase catalyst for efficient esterification, Netherlands Biotechnology Congress, Ede Wageningen, The Netherlands, 2010, 112.
8. Livia Corîci, **Ramona Croitoru**, Cristina Zarcula, Florin Balcu, Corina Macarie, Firuța Fiţigău, Raluca Martagiu, Francisc Peter, Enzymatic hydrolysis of cellulose and pretreated lignocellulosic biomass, The XIth Edition of Timisoara’s Academic Days, Chemistry Symposium, Timișoara, Romania, 28 – 29 mai 2009, P016, pp. 66, ISBN 978-973-52-0630-7.
9. Cristina Zarcula, Paula Sfârloagă, Livia Corîci, **Ramona Croitoru**, Francisc Peter, Caracterization of sol-gel immobilized Pseudomonas fluorescens lipase, The XIth Edition of Timisoara’s Academic Days, Chemistry Symposium, Timișoara, Romania, 28 – 29 mai 2009, PO17, pp. 73, ISBN 978-973-52-0630-7.
10. **Ramona Croitoru**, Cristina Zarcula, Francisc Peter, Influence of reaction medium on kinetic resolution of secondary alcohols catalyzed by immobilized lipases, The 13th International Symposium for Students in Chemistry, Timișoara, Romania, 21 noiembrie 2008, 13.
11. Raluca Martagiu, **Ramona Croitoru**, Ion Balcu, Francisc Peter, Studiul hidrolizei enzimatice a unor substraturi, The XXXth Romanian Chemistry Conference, Calimăneşti-Căciulata, Romania, 8 – 10 octombrie 2008, Book of abstracts, pp. 86, ISBN 978 – 973 – 750 – 124 – 0.
12. Cristina Zarcula, **Ramona Croitoru**, Carol Csunderlik, Francisc Péter, Influența mediului de reacție asupra acilării unor alcooli secundari, The XXXth Romanian Chemistry Conference, Calimăneşti-Căciulata, Romania, 8 – 10 octombrie 2008, Book of abstracts, pp. 64, ISBN 978 – 973 – 750 – 124 – 0.
13. Cristina Zarcula, **Ramona Croitoru**, Carol Csunderlik, Francisc Peter, Ionic liquids and sol-gel immobilized lipases: possible synergism, The 4th International Congress on Biocatalysis 2008, Hamburg, Germany, 31 august – 4 septembrie 2008, P171, 293 – 294, ISBN 978-3-930400-74-4.
14. Cristina Zarcula, **Ramona Croitoru**, Carol Csunderlik, Francisc Peter, Influence of solvents and nonstructural ionic liquid templates on activity and enantioselectivity of sol-gel entrapped lipases, The 2nd International Conference Biocatalysis in Non-Conventional Media, Moscow, Russia, 11 – 16 iunie 2008, 9.
15. Cristina Zarcula, **Ramona Croitoru**, Firuța Fiţigău, Sandor Kakasi Zsurka, Francisc Péter, Improvement of enzyme stability by an integrated technique of sol-gel entrapment and adsorption, International Conference on Chemistry and Chemical Engineering, Timișoara, Romania, 28 – 30 mai 2008, P309.
16. Cristina Zarcula, **Ramona Croitoru**, Carol Csunderlik, Francisc Péter, Ionic liquids as immobilization additives and reaction media for lipase-catalyzed reactions, International Conference on Chemistry and Chemical Engineering, Timișoara, Romania, 28 – 30 mai 2008, P310.

**Selecție a 10 lucrări reprezentative pentru realizările profesionale proprii**

1. **Alina Ramona Buzatu**, August E. Frissen, Lambertus A. M. van den Broek, Anamaria Todea, Marilena Motoc, Carmen Gabriela Boeriu, Chemoenzymatic Synthesis of New Aromatic Esters of Mono- and Oligosaccharides, Processes, 8 (12), 2020, 1638-1657, indexat ISI, IF 2,753.
2. Maria Mihailescu, Petru Negrea, Narcis Duteanu, Adina Negrea, Mihaela Ciopec, Vasile Gherman, **Ramona Buzatu**, Marilena Motoc, From the Complex Process of Gold Ions Recovery in New Antimicrobial Product, Revista de Chimie, 70, 3, 2019, 1080-1084, ISSN 0034-7752, indexat ISI, IF 1,755.
3. Corina Grigoriu, Florentina Furtunescu, Laura Elena Gaman, Alice Lavinia Balaceanu, **Ramona Buzatu**, Mihai Grigoriu, A Biochemical Marker of Preeclampsia - Hypertriglyceridemia - and the Impact of Secondary Prevention Therapy, Revista de Chimie, 69, 10, 2018, 2740-2743, ISSN 0034-7752, indexat ISI, IF 1,605.
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5. Marius Pentea, Ionut Sarac, Ionel Samfira, Adina Negrea, Mihaela Ciopec, Marilena Motoc, Andreea Gabor, Petru Negrea, **Ramona Buzatu**, Studies Concerning Disposal Radionuclides by Adsorption Rabbit Bone Meal, Revista de Chimie, 2016, 67 (5), 967 – 970, ISSN 0034-7752, indexat ISI, IF 1,232.
6. Andreea Gabor, Corneliu Mircea Davidescu, Adriana Popa, Adina Negrea, Mihaela Ciopec, Marilena Motoc, Lavinia Lupa, **Alina** **Ramona Buzatu**, Petru Negrea, Equilibrium Studies for Crown Ether Impregnated Solid Support Used in the Removal Process of Nd(III), La(III), Sr(II), Tl(I), Eu(III), Revista de Chimie, 2016, 67 (3), 580 – 583, ISSN 0034-7752, ISI, IF 1,232.
7. **Ramona Croitoru**, Firuța Fiţigău, L. A. M. van den Broek, A. E. Frissen, Corneliu Mircea Davidescu, Carmen Boeriu, Francisc Peter, Biocatalytic acylation of sugar alcohols by 3-(4-hydroxyphenyl)-propionic acid, Process Biochemistry, 2012, 47 (12), 1894 – 1902, ISSN: 1359-5113, indexat ISI, IF 2,414.
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